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(54) **STEREOSCOPIC DISPLAY DEVICE**

(57) Abstract:

**PURPOSE:** To provide a sharp stereoscopic image even with liquid crystal having color filters in the form of longitudinal stripes by providing an optical filter for which picture elements for left eye and picture elements for right eye are alternately arranged in all rows and columns, opening parts are provided corresponding to both the picture elements and beams from both the picture elements are splitted and emitted.

**CONSTITUTION:** A liquid crystal panel 2 is arranged on the front surface of a planar light unit 1, and an optical filter 6 having check-shaped opening parts corresponding to the arrangement of picture elements on this panel 2 is arranged on the observer side of the liquid crystal panel 2. Concerning the liquid crystal panel 2, the color filters are arranged in the form of longitudinal stripes so as to sharply display the longitudinal lines of images. Images in R, G and B are successively displayed in the direction of columns on the panel 2 but images for right eye and left eye are alternately displayed at adjacent picture elements in both column and row directions. Respective opening parts 61 of the optical filter 6 transmit the beams from the picture elements to be watched by left and right eyes

and shield parts 62 shield the beams from the picture elements to be hidden.

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